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ABSTRACT

This book begins with an overview of computer technology concepts, including computer system configurations, computer communications, and software. Instructional computer applications are then discussed; topics include computer-assisted instruction, computer-managed instruction, computer-enhanced instruction, LOGO, authoring programs, presentation software, multimedia, videodiscs, CD-ROM, and technology and school restructuring. Exemplary programs and projects in elementary and secondary schools throughout the United States are presented. The 53 cases selected are primarily the product of a nationwide reputational survey conducted in late 1993. They are considered representative of not only programs worthy of examination from a pedagogical perspective, but also programs which may merit replication or be transportable to other schools and districts. Each case study includes program goals; keywords/descriptors; location; general demographic information; program description; outcomes, results, and accomplishments; difficulties; things to consider if replicating a program; costs (start-up; maintenance; operation; and other resource requirements); evaluative comments and general observations; and contact person(s). Appendices include program indexes by keywords, educational level, state and contact person; a discussion of selected keywords and recommended sources for further information; sample school technology plans; and a list of professional publications, organizations, associations, and conferences related to instructional technology. Instructions for submitting programs to be considered for inclusion in the next edition are included. (DLS)

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